



**LEMBAGA ILMU PENGETAHUAN INDONESIA
(INDONESIAN INSTITUTE OF SCIENCES)
PUSAT PENELITIAN BIOLOGI
(RESEARCH CENTER FOR BIOLOGY)**

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Cibinong, 28 April 2014

Nomor : 688 /IPH.1.02/IE.8/1/2014
Lampiran : -
Perihal : Hasil identifikasi/determinasi Tumbuhan

Kepada Yth.
Bpk./Ibu/Sdr(i): **Kenny Gozal**
NPM :
Mhs. Univ. Tarumanegara
Telp. (021)5670815

Dengan hormat,

Bersama ini kami sampaikan hasil identifikasi/determinasi tumbuhan yang Saudara kirimkan ke "Herbarium Bogoriense", Bidang Botani Pusat Penelitian Biologi-LIPI Bogor, adalah sebagai berikut :

No.	No. Kol.	Jenis	Suku
1	Apel Malang	<i>Malus pumila</i> Mill. Syn. <i>Pyrus malus</i> L.	Rosaceae

Demikian, semoga berguna bagi Saudara.

Kepala Bidang Botani
Pusat Penelitian Biologi-LIPI,



Dr. Jochi Setiyo Rahajoe
NIP. 196706241993032004

Lampiran 2 Hasil Uji Fitokimia



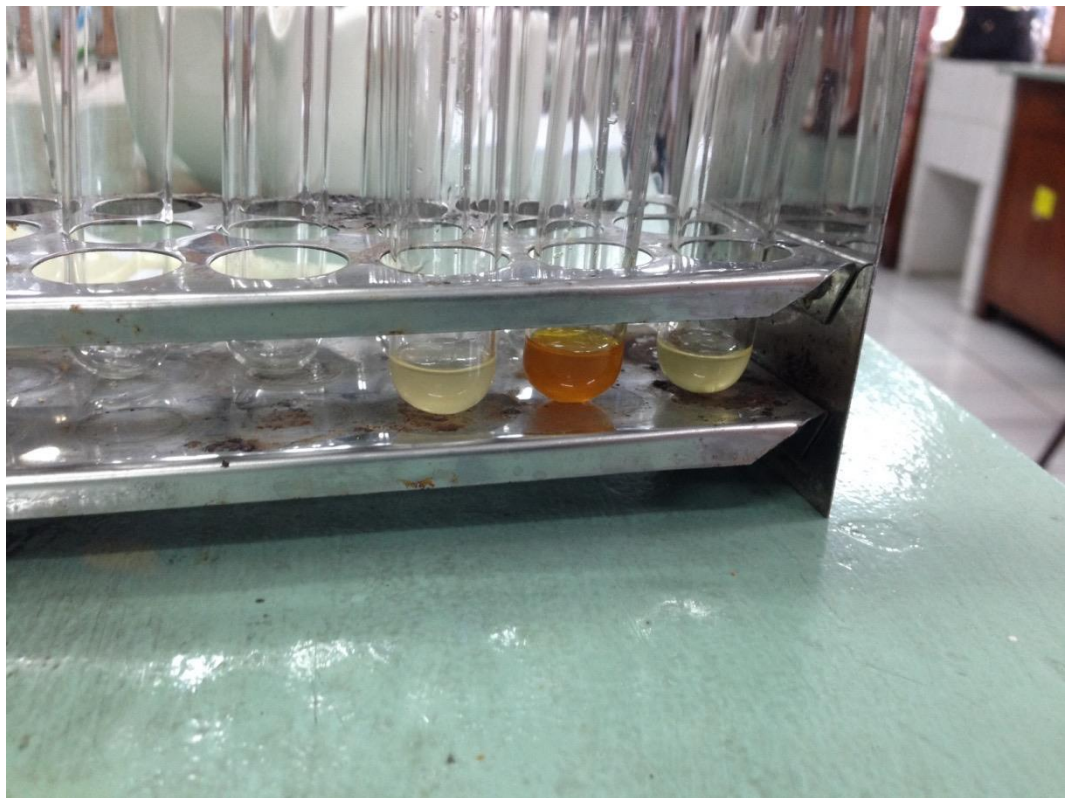
Kulit Buah Apel Malang Segar



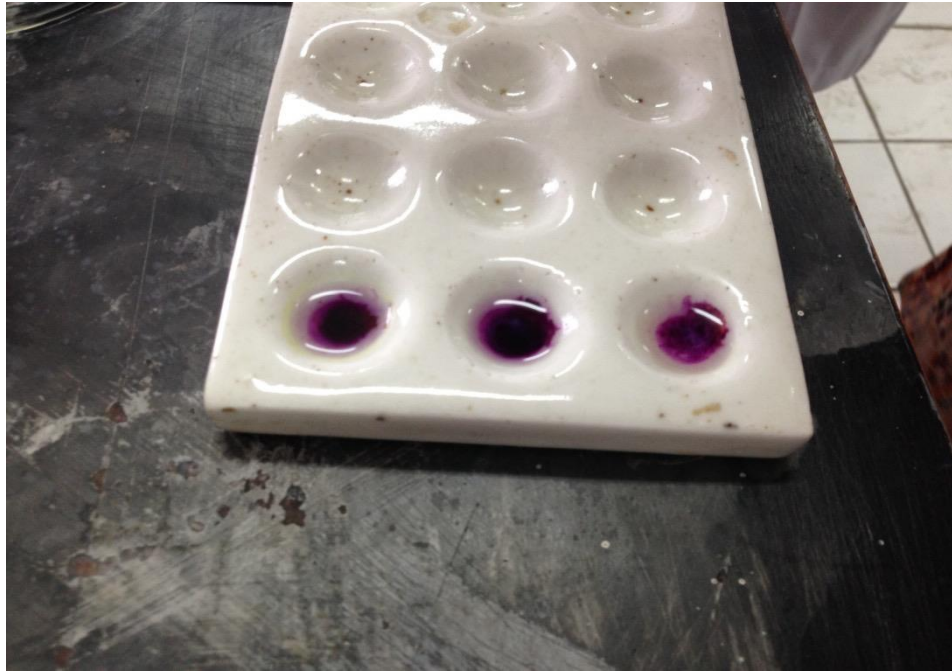
Ekstrak Kulit Buah Apel Malang Segar Dalam Tabung Reaksi



Hasil Uji Fenolik +



Hasil Uji Flavonoid +



Hasil Uji Steroid – (cincin biru) & Terpenoid + (cincin merah)

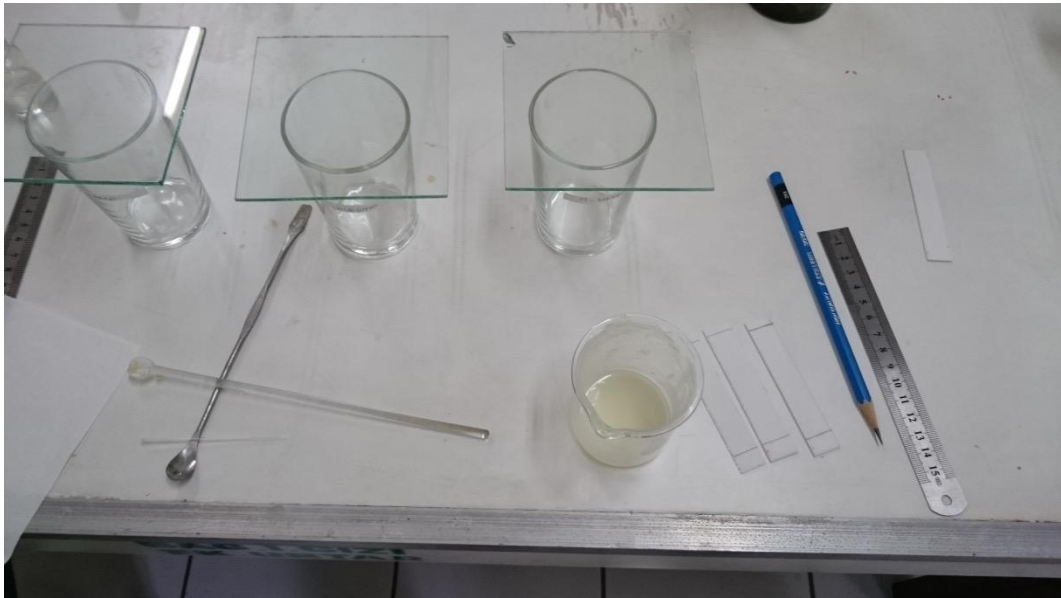


Hasil Uji Alkaloid -



Hasil Uji Saponin –

Lampiran 3 Hasil Uji KLT



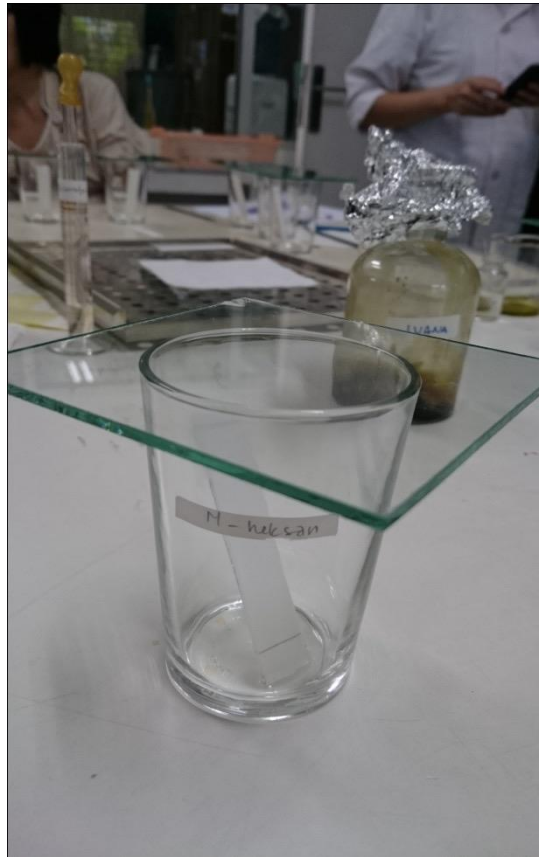
Persiapan Chamber KLT



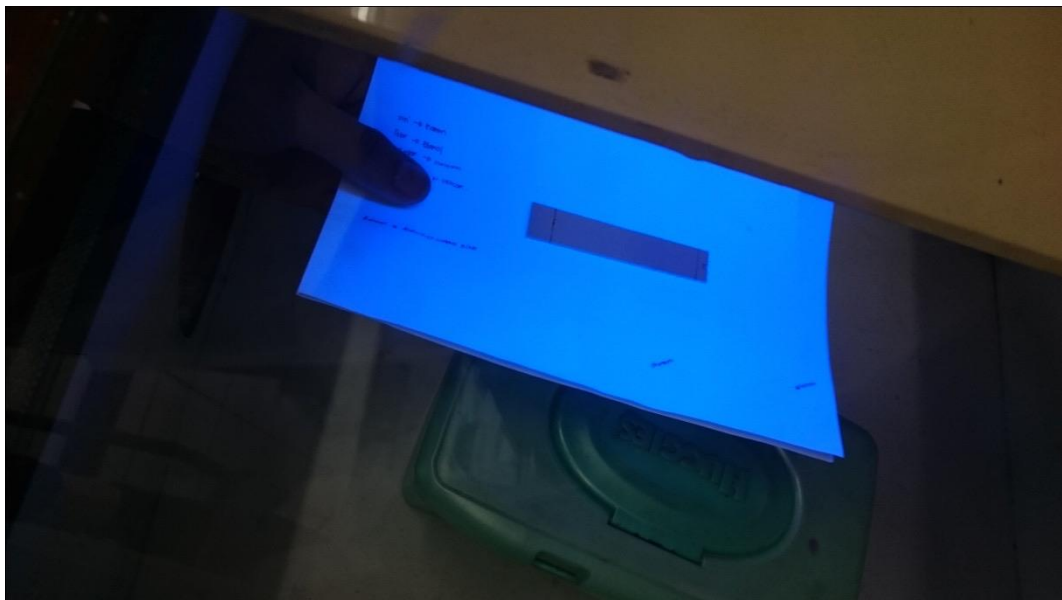
Chamber Etanol



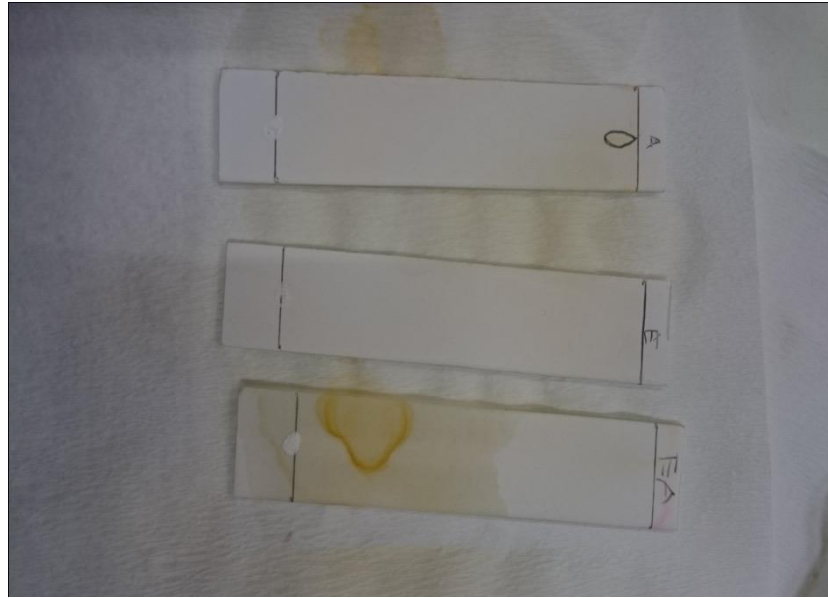
Chamber Kloroform



Chamber N Heksan



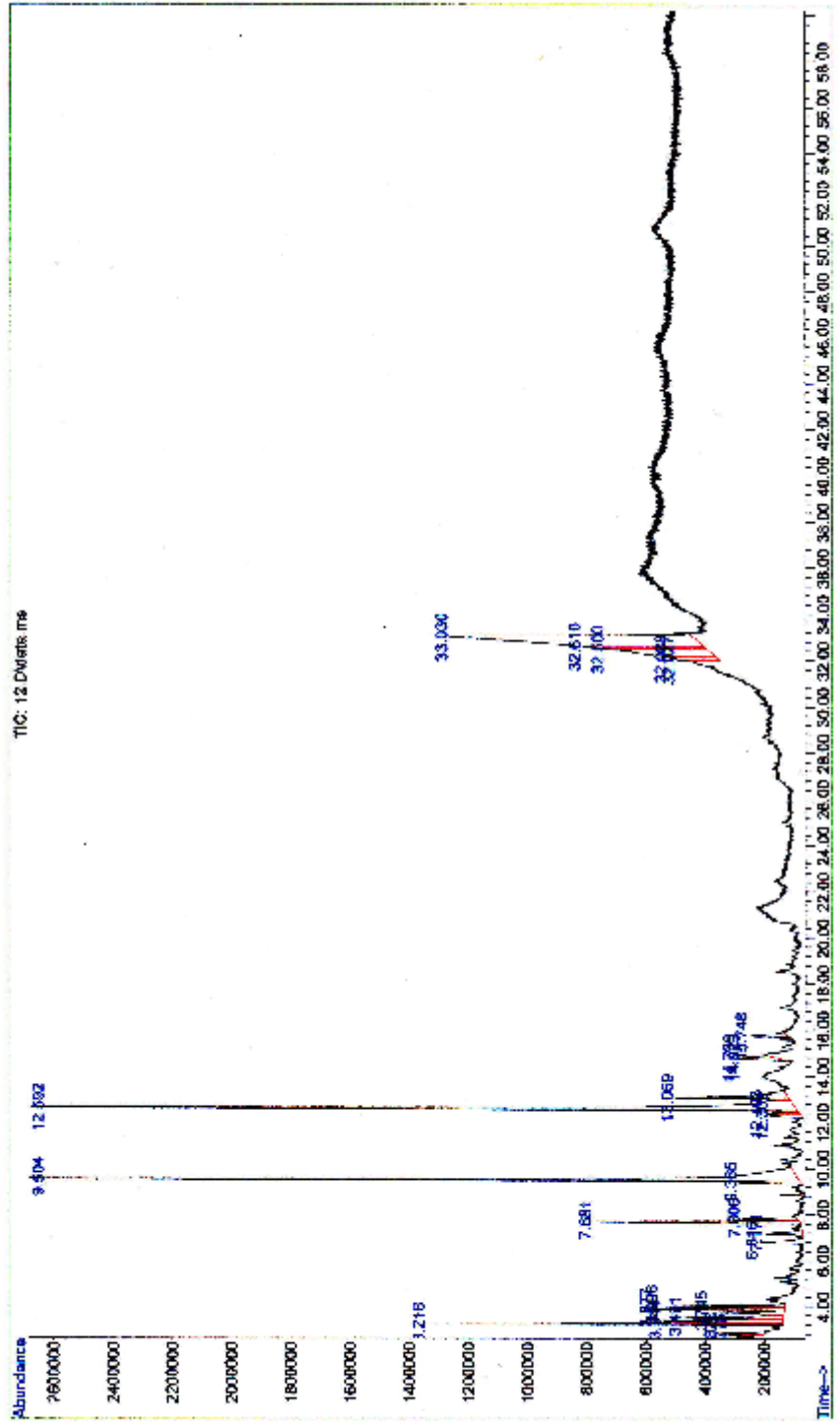
Hasil UV



Tidak Terdapat Noda Spesifik

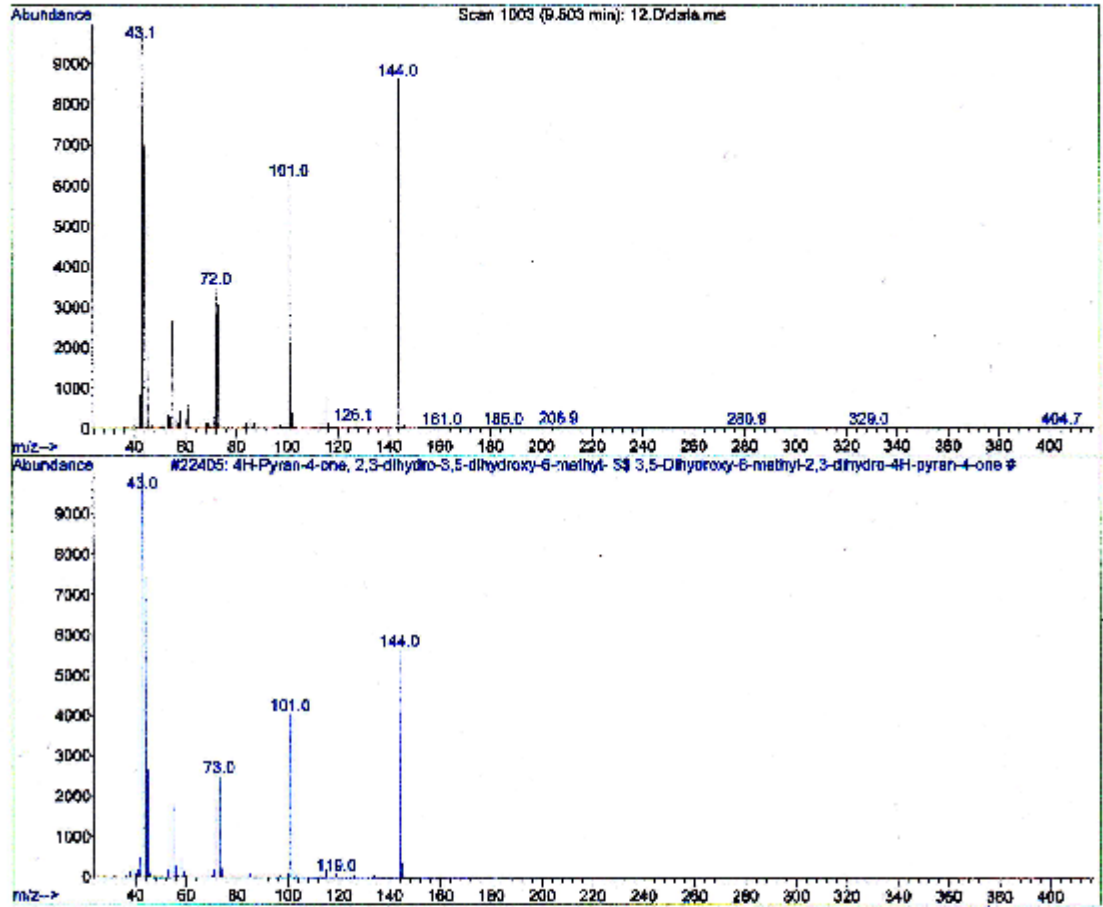
Lampiran 4 Hasil Uji GC-MS

File : C:\msdchem old\1\DATA\150512-a\12.D
 Operator : Eaz
 Acquired : 13 May 2015 10:50 using AcqMethod BALITRO1.M
 Instrument : GC/MS F
 Sample Name: 52.02.04/1368 (Sampel 3)
 Misc Info :
 Vial Number: 1



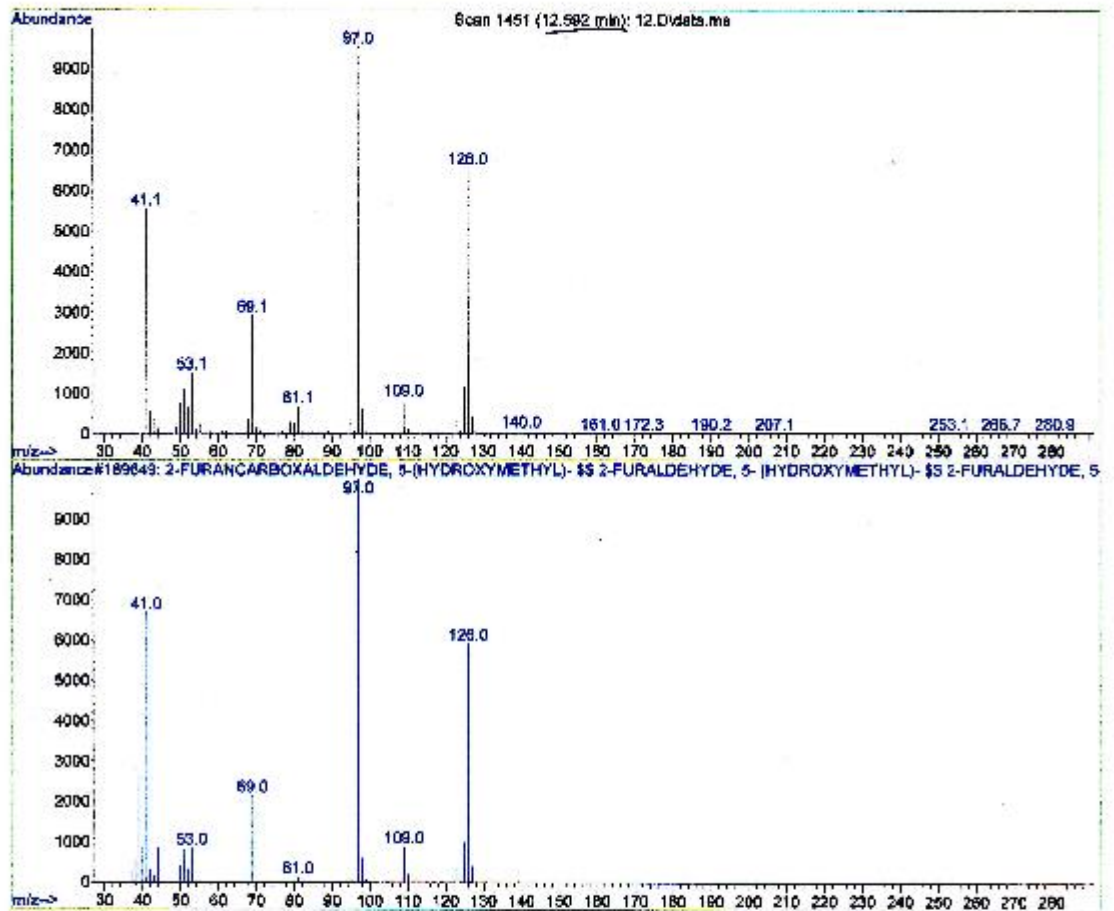
Hasil GC-MS (Isi senyawa-senyawa Kimia dalam Kulit Buah Apel Malang)

Library Searched : C:\DATABASE\WEN09.L
Quality : 93
ID : 4H-Pyran-4-one, 2,3-dihydro-3,5-dihydroxy-6-methyl- \$ 3,5-Dihydroxy-6-methyl-2,3-dihydro-4H-pyran-4-one #



Puncak Tertinggi Pertama = 4-Pyran

Library Searched : C:\DATABASE\WBN08.L
 Quality : 91
 ID : 2-FURANCARBOXALDEHYDE, 5-(HYDROXYMETHYL)- \$\$ 2-FURALDEHYDE, 5-(HYDROXYMETHYL)- \$\$ 2-FURALDEHYDE, 5-(HYDROXYMETHYL)- \$\$ 2-FURANCARBOXALDEHYDE, 5-(HYDROXYMETHYL)-



HMF
 Anti-Cancer on Fats

Puncak Tertinggi ke 2 = HMF (Hydroxymethylfurfural)

Lampiran 5 Daftar Riwayat Hidup

A. Daftar Pribadi

Nama : Kenny Gozal
NIM : 405120083
Jenis Kelamin : Laki-Laki
Tempat, Tanggal Lahir : Tanjung Karang, 12 Febuari 1995
Agama : Kristen
Status Peernikahan : Belum Menikah
Pendidikan Terakhir : SMA
Kewarganegaraan : Indonesia

B. Pendidikan

1. 1998-2000 : TK Xaverius Metro
2. 2000-2003 : SD Xaverius Metro
3. 2003-2006 : SDK BPK PEnabur Metro
4. 2006-2009 : SMP Xaverius Metro
5. 2009-2012 : SMAK BPK Penabur National Plus LPG

C. Organisasi

1. 2012-2013 : BEM Muda FK UNTAR
UMCR
2. 2013-2014 : Koordiantor BEM Divisi Olahraga
UMRC
3. 2014-2015 : Koordinator UMRC Divisi Logistik